Japanese Laid-Open (Kokai) Patent No. 64-94056

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Inventor : Kenjiro Arimori

Applicant: Kuraray Chemical Co. Ltd.

I. TRANSLATION OF PAGE 1, LOWER RIGHT COLUMN, LINE 13 TO PAGE 2, UPPER LEFT COLUMN, LINE 4.

However, broccoli has special characteristics that, even though it is preserved [in a plastic bag] with a freshness maintaining agent, its flower buds can easily yellow and its commercial value can be lowered in a short time. Then bad odor can be produced and the commercial value can be completely nullified. If preserved at 20°C, flower buds begin to yellow in 30 hours, and completely yellow and produce bad odor in 45 hours. This is because a broccoli breathes extremely actively and produces large amount of carbon dioxide. The density of carbon dioxide can reach 10-13% and then the density of oxygen consumed is lowered to less than 5%. It is thought that[, in this atmosphere,] molecular breathing is induced and causes production of organic gas which is a source of bad odor.

II. TRANSLATION OF PAGE 2, LOWER RIGHT COLUMN, LINE 19 TO PAGE 3, UPPER RIGHT COLUMN, LINE 18.

By this invention, broccoli, which easily changes color and produces a bad odor and is considered to difficult produce in maintaining freshness, can be preserved for 5 to 7 days in a fresh manner, then commercial value of broccoli can be remarkably increased and the distribution area can be expanded.

Examples of the present invention are explained below. Example $\ensuremath{\mathsf{1}}$

An absorbent with a unethane foam having 2mm in thickness and 150mm by 200mm in size, to which 4g of active carbon having 1,700

 m^2/g specific surface area and having particle size of 90% passing through 100 mesh was added, was enclosed in a bag formed by dual axis extended polypropylene film with a size of 670mm by 550mm and a thickness of 25μ , together with 2 kg of broccoli. The bag was sealed and preserved at a room temperature. Even after 7 days, yellowing of flower buds [of broccoli] and bad odor were hardly observed.

Example 2

The amount of active carbon was made to 3g as to the absorbent of Example 1, and further 2g of hydrated lime was added to the urethane foam. Broccoli was preserved in a sealed bag under the same conditions of example 1 other than the conditions above. After 8 days, no yellowing and odor were observed at all.

Example 3

An absorbent with a urethane foam having 2mm in thickness and 150mm by 250mm in size, to which 4g of active carbon having 1,700 $\rm m^2/g$ specific surface area and having particle size of 90% passing through 100 mesh was added, was enclosed in a bag of polyethylene film with a size of 670mm by 550mm and a thickness of 30μ , together with 2 kg of broccoli. The bag was sealed and preserved at a room temperature. Even after 7 days, no yellowing of flower buds [of broccoli] and bad odor were observed at all.

Example 4

A bag having film with 30μ in thickness of ethylene-vinyl acetate copolymer containing 17% vinyl acetate was used, instead of a film of dual axis extended polypropylene of Example 1. Even after 7 days, no yellowing of flower buds and bad odor were observed at all.

Comparative Example

Under the same conditions of Example 1 excepting that the absorbent was not used, broccoli was preserved. After one day, yellowing of flower buds [of broccoli] and bad odor were observed. After 2 days, the flower buds yellowed completely and extreme bad odor was produced.

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⑩日本国特許庁(JP)

① 特許出願公開

砂公開特許公報(A)

昭60-94056

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庁内整理番号 6904-4B 6904-4B 母公開 昭和60年(1985)5月27日

審査請求 未請求 発明の数 1 (全3頁)

Filed 05/09/2008

❷発明の名称 ブロツコリー保存袋

> 到特 願 昭58-201437 **登出 顧 昭58(1983)10月27日**

有森 健 二 郎 ⑪出 順 人 クラレケミカル株式会

茨木市南春日丘1-17-20 ガーデンハイツ清水105

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危明の名称

た1つのポリマーよりなる外さ 15~ リー保存袋。

ッタフイルムで包装した形態で混画してい る。しかし、内容物が腐敗し易いものは代変、地

これは密封された背景物の呼吸作用の結果、内 部の雰囲気の風成が、その保存に不通当となるた

られる。これらの保存に渡した雰囲気は 度は80~95%が好遊であるとされている。し 呼吸作用が旺盛なもの或いは特に興敗し易 のは規則ガス原度が 10 多近くに運する場合 黄変、解散、孤臭等の発生が能適されること が多い。近年これらの場合、小爪の活性炭を和紙 なっている。しかし、ブロッコリーは非常に特異 な性状を示し、通常の鮮度保持剤を対入して鬱封 しても、花らいが枝変しめく短時間に顔品 リーの呼吸作用が非常に旺盛なため多量の規模が

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スが発生して頑度10~13%にも止する着しい 樽具な性質を示し、一方酸素が消費されて5−%以 よりなる群より射ばれた1つのポリマーよりなら 下となる。このため分子内呼吸を開発し、歴典の 軍因となる有機がスを着生するためと考えられる。 プロッコリーの収入れから渡過消費迄の期間を考 えた場合5~6日間の鮮度保持が可能となれば、 渡通範囲及び需要量の大市な伸長を見込みうると いわれ、その解決がまたれていた原題である。

制しうる如き材質及び厚さのプラスチックフィル ムの選択と、更に内部に書稿される炭酸ガスを除 去する方法について研究した射泉、ブロッコリー を特定の種類及び厚さを有するプラスチックフィ ルムで包装し、中に接触而積が大きく且つ、店住 炭偶有の表面腹が大きく、従って、従来の鮮度保 たは更に炭酸ガス吸収剤を加えることにより、相 当後期間鮮度保存が可能となって、著しく組品類 値を高めうること見出し本格明に到避した。 ご

すなわち、ポリエチレン、ポリプロピレン、ポ

リプタジェン及びエチレン・酢酸ビニル共富合体 厚さ15~50gのフイルムの包装袋にシート伏 の発泡体に粉末活性炭酸いは更に用石灰を凝射せ しめた吸磨剤及びブロッコリーを解射せしめてな るブロッコリー保存役である。

以下更に木薙明について詳しく説明する。 ポリエチレン、ポリプロピレン及びポリプタジ これらの間点から包装袋として酸素の透過を卵 エンは物性の異なった顔々のソイルムが耐蔵され ているが、遅さ15~50gの範囲内であれば充 分散業シールの目的を選しうる。厚さ 15 。以下 になると化らんが黄変する場合があり、また50 メ以上になると、包装袋内面に常に水腐を結んだ 次額となって放真を発生しあく、本格明の用途に 不適当である。また包装用フィルムに使用される エチレン・酢酸ビニル共産合体の組成は、品常酢 限ビニル合有半5~。30%である。

> これはポリエチレン、ポリプロピレン、及びポ リプタジェンと異なり、或る程度酸素症過性を有 すらが、水分透過性も相当ありまた呼吸作用に伴

って着生するエチレンも最適除去する作用がある。 エチレンは特に植物ホルモンとして芹果物の成熟 黄変を促進する作用があるとされ、鉄フイルム物 性は鮮度保持の促進と風管の以道が考えられるが、 シート状かつ関伸性を有する形態が好ましい。尚 家路に使用した鉄型、身好な鋳造が摂られている。

吸着所は多孔質箱抱体に活性炭漿粉末を含没せ しめたものである。発泡体は速線気泡で表面数が 大きなものであればよく、特に材質は凸定しない 」が、ポリエーテル若違いはポリエステル系のクレ メンフォームが好選である。また活性似の原料・ 性状は特に以定しないが、ヤシ酸を以料として駅 活度を高めた比較面積 1,500~1,700 4/2 の高性能 活性炭で且つ 100 メッシュパス程度の危粒子が 好ましい。発泡体への含没量は40~60%程度 が適当である。本希明では、選続気泡型培泡体に よる表面群の増大、比表面機が大きく且つ機粒子 状活性炭を使用して、昇しくガス吸磨速度を高め て、鮮度保持の目的を出することができた。特別 体には更に内石灰を含度せしめることもでき、そ の場合炭酸ガスの吸収能力が寄しく増加する。吸 **連州は預測体のため外気との接触値段が響しく大** きい私と相まって、環境有容がスの吸渡除去に選 しており、更にブロッゴリー共に密閉する過係上 猪泡体には不栽布吸いは通気性がある紙飾も含ま nъ.

吸痕剤の使用放はブロッコリー2をに対して、 厚さ2m: 150×200mのシート1~4枚ある が2~3枚が好選である。本発明におけるブラス チックフイルムの包装形態はシュリジク包装、ス トレッチ包装のほかにヒートシール法紋いは洲口 部を経でしばって密封する方法等も可能である。 また木苑明は、ライナーに直接ラミネートしたり 復用フィルムを含むダンボール指に入れ合せ目を シールする場合も合んでいる。このような場合ブ 「ロッコリーはプラスチックフィルムの袋に入れる ことなしに直接ダンボール箱に入れる方法で使用

本角明によれば芹泉物の中でも特に変色、思臭 発生を超し易く、従来節度保持が困難とされてい たプロッコリーを3日~7日間新鮮な状態で採つ ことが可能となり、これ こりブロッコリーの所 品価値な者しく高め筬頭難狙を以大することがで きるようになった。

以下本希明の実施例について説明する。

大きさ 6 7 0 × 5 5 0 m 、 ル さ 2 5 x の 二 額 延 仲 ポリプロピレンフィルムの包接版に大きさ 150 ×200無のウレタンフォームに比表而積 1.700m/g 100メッシュバス90%以上の活性関4タを版 僧させた吸消剤とブロッコリー 2 馬を入れて密封 し、常庭で供持したが、7日間経過しても、化ら いの費登及び巡異は殆んど認められなかった。

実施例 2

実施例1の吸着剤において活性災感療量を39 及び消石灰29を旅府した他同一乗でプロッコリ - を寄封保存したところ、8日間軽適しても花ら いの貧変及び避臭は全く感められなかった。

大きさ670×550m、浮さ30μのポリエチ

អគ្គសម្រ (3) レンフイルムの包括技术、選さ2ペ、とき2159 ×250 mのウレタンフォーム、长哨羽1.790がg、 100メッショバス90名以上の所作用19を暗 泊させた吸放剤とブロッコリー 2 なを入れて京け し、常庭で保持したが1日間移移しても花らいの 改変反び照集の簡単は全く認められなかった。

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火権例1において二枚抵押ポリプロビレンフイ ルムの代りに厚さ30g、酢酸ビニル含有米17 方のエ、レン酢酸ビニル共成介体フィルムを使用 した結果、7日間種材しても作らいの前変及び感 見の発生は全く認められなかった。

現権例1において吸液研を使用しなかった他同・ 一条件でプロッコリーを保存した結果1日間で設 程度の作らいの改変及び想象が認められ、2日間 で完全に併発し、考しい問題を危するようになっ

> 特許出顧人 代 瓊 人

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What is claimed is:
       1. A compound of formula ##SPC18## wherein R.sup.1 and R.sup.2 are
       methyl or ethyl; X and X' are bromo, chloro or fluoro; Y is
       hydrogen, bromo or chloro; and
       4. A compound according to claim 1 which is 2-(3,5-dichlorophenyl)-
        4,4-dimethyl-5-chloro-5-dichloromethyloxazoline and
        5. A compound according to claim 1 which is 2-(3,5-dichlorophenyl)-
        4,4-dimethyl-5-bromo-5-dibromomethyloxazoline and its
       hydrobromide.
INCL
       INCLM: 260/307.000F
NCL
       NCLM: 548/237.000
IC
       [1]
       ICM: C07D085-36
EXF
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ARTU
       122
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
      ANSWER 31 OF 32 COPYRIGHT 1995 EPO
      9053660 INPADOC
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TI
      BAG FOR PRESERVING BROCCOLI SPROUTS.
      ARIMORI KENJIROU
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      ARIMORI KENJIROU
      KURARE CHEMICAL KK
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     PATENT ABSTRACTS OF JAPAN, Unexamined Applications, Section: C, Sect. No. 305, Vol. 9, No. 2371, P. 2 (19850924)
     ICM (4) A23B007-144
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     ICS (4) A23B007-00
11.4 AGRICULTURE, FORESTRY, AND FISHERY - Food products
CC
     14.5 ORGANIC CHEMISTRY - Microorganism industry
31.2 PACKING - Container
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PURPOSE: A broccoli sprout product preserved in bag capable of preserving freshness for a long period, obtained by sealing up

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 046585/0102

In re patent application of Jed FAHEY et al.

Serial No. 08/528,858

Filed: September 15, 1995

For: CANCER CHEMOPROTECTIVE FOOD

DECLARATION OF PAUL TALALAY UNDER 37 C.F.R. § 1.132

- I, Paul Talalay, being duly warned, hereby declare and say:
- 1. I am a citizen of the United States of America, and reside at 5512 Boxhill Lane, Baltimore, MD 21210.
- 2. I am John Jacob Abel Distinguished Service Professor, Department of Pharmacology and Molecular Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland 21205. I am a member of the National Academy of Sciences of the United States, a Member of the American Philosophical Society founded in Philadelphia for the Promotion of Useful Knowledge, and a lifetime Professor of the American Cancer Society.
- 3. I am a medical scientist who has been involved for the last 19 years in devising chemical and dietary strategies for reducing the risk of human cancer.
- 4. I am a co-inventor named in U.S. application serial No. 08/528,858 ("the application"). In relation to the application, I have reviewed an Official Action, mailed December 24, 1996, and the prior art cited therein, and I make the following observations.
- 5. None of the prior art references cited by the examiner in the Official Action, either alone, or in combination, teach or suggest the claimed methods for preparing food products

comprised of the designated cruciferous sprouts, or extracts made from these sprouts.

- 6. The claimed methods of the application provide food products that not only contain unexpectedly <u>high</u> levels of anticarcinogenic Phase 2 inducer activity, but also contain unexpectedly <u>low</u> levels of potentially carcinogenic Phase 1 enzyme inducer activity. The sprouts and their extracts are therefore both qualitatively and quantitatively radically different in their content of enzyme inducer activities compared to mature, market stage vegetables.
- There is a continuing proliferation of epidemiological studies that demonstrate an inverse relation between the *quantity* of vegetables consumed and the risk of cancer. Furthermore, several of these studies emphasize the protective effect of cruciferous vegetables, specifically, and demonstrate andose dependence of the magnitude of the effect. Consumption of >425 g/wk of mature, market stage Brassica sp. reduces the cancer odds ratio to approximately 0.5 (50% risk reduction) for colon cancer in comparison to the consumption of <125 g/wk. Kune et al., Nutr. Cancer 9: 21-42 (1987). The odds ratios for colon cancer in relation to vegetable consumption was determined. Graham et al., J. Natl. Cancer Inst. 61: 709-714 (1978). Individuals who ate an average of 0-20, 21-40, 41-60 and more than 61 servings per month had odds ratios of 1.00, 0.66, 0.57 and 0.47 respectively. If one extrapolates the results of Graham, a 75% reduction in cancer risk would require consumption of perhaps 750 g (1.5 lbs.) of vegetables per day. The results of 7 cohort studies and 87 case-control studies have been summarized. Verhoeven et al., Cancer Epid. Biomarkers & Preventions 5: 733-748 (1996). Cohort studies showed: inverse associations between the consumption of cabbage, cauliflower and broccoli and risk of

lung cancer; between consumption of brassica vegetables and risk of stomach cancer; between broccoli consumption and risk of all cancers taken together and between brassica consumption and the occurrence of second primary cancers. They conclude that a high consumption of brassica vegetables is associated with a decreased risk of cancer.

- It is impractical for most individuals to consume the large quantities of market stage broccoli or other vegetables to achieve maximum protection, because the quantity of fiber and other phytochemicals that need to be consumed can cause bowel irritation and/or flatulence.
- Cruciferous sprouts and sprout extracts prepared according to the claimed methods provide 20 to 50-fold higher levels of Phase 2 enzyme inducer activity than mature market stage cruciferous vegetables. The data from Tables 1 and 3 of the application are summarized in APPENDIX B1 attached hereto. A significant health benefit can be realized through ingestion of small quantities of cruciferous sprouts, or sprout extracts, prepared according to the claimed methods. The same health benefits can only be realized, if at all, through the ingestion of intolerably large quantities of market stage vegetables that contain significantly lower quantities of anticarcinogenic Phase 2 inducer activity compared to the sprouts prepared according to the application.
- 10. For purposes of illustration, I determined in one experiment that 3 grams of 3-day old broccoli sprouts, or 150 milligrams of a lyophilized hot water extract made from 3-day old broccoli sprouts, contain the same quantity of Phase 2 enzyme inducer activity as 150 grams of mature market stage broccoli. Phase 2 enzyme inducer activity is measured in the Hepa 1c1c7

murine hepatoma cells grown in 96-well microtiter plates according to the method of Prochaska et al., Anal. Biochem, 169: 328-336 (1988). One unit of Phase 2 enzyme inducer activity is defined as the amount that when added to a single microtiter well, doubles the quinone reductase activity. The quantity of mature market stage broccoli, sprouts and sprout extracts that must be consumed to realize the same health benefit (2-1/4 million units of anticarcinogenic Phase 2 enzyme inducer activity) is shown in APPENDIX B2 attached hereto.

- 11. The methods of the application also provide food products comprised of certain cruciferous sprouts and sprout extracts that do not contain significant levels of indole glucosinolates which break down to Phase 1 inducers. Phase 1 enzymes (cytochromes P-450) functionalize compounds, usually by oxidation or reduction. Although one role of Phase 1 enzymes is to detoxify xenobiotics, several cytochromes P-450 activate procarcinogens to highly reactive ultimate carcinogens.
- Attached hereto as APPENDIX B3 are graphs showing comparative paired ion chromatographs of broccoli sprouts and mature market stage broccoli. The paired ion chromatographs were prepared according to the method developed in our laboratory by Prestera et al., Anal. Biochem. 239: 168-179 (1996). peaks on the chromatograph represent glucoraphanin, glucoerucin, glucobrassicin and neoglucobrassicin, respectively. The former two glucosinolates are alkylthioglucosinolates with potent Phase 2 enzyme inducer activity and are the predominant glucosinolates found in sprouts. The latter two glucosinolates are indole glucosinolates which predominate in mature market stage broccoli.
- 13. Recent studies have shown that sulforaphane (the hydrolysis product of glucoraphanin which is the principal

inducer precursor in sprouts) has a number of favorable properties with respect to its use as a chemoprotector. Sulforaphane inhibits mammary tumor formation in female Sprague-Dawley rats treated with single doses of dimethylbenzanthracene. Zhang et al., Proc. Natl. Acad. Sci. USA 91: 3147-3150 (1994). Sulforaphane shows exceedingly potent inhibitory activity against DMBA-induced neoplastic mammary lesions in mouse mammary gland explants in culture: 84, 56, and 34% inhibition at 1 μ M, 100 nM, and 10 nM concentrations, respectively. Gerhauser et al., Cancer Research <u>57</u>: 272-278 (1997). Sulforaphane is not itself genotoxic (i.e., does not produce unscheduled DNA synthesis) but inhibits the genotoxicity of N-nitrosodimethylamine (NDMA) in Salmonella typhimurium and NDMA-induced unscheduled DNA synthesis in mouse hepatocytes. Barcelo et al., Carcinogenesis 17: 277-282 Sulforaphane has the unusual property of inhibiting cytochrome P-450 type 2E1 which is involved in the metabolic activation of carcinogenic nitrosamines. Barcelo et al., Carcinogenesis 17: 277-282 (1996).

The indole glucosinolates do not give rise to isothiocyanates upon myrosinase hydrolysis because the indole isothiocyanates are unstable. One major degradation product is indole-3-carbinol which has attracted a great deal of recent attention. Although this compound exerts anticarcinogenic activity in some experimental tumor systems when administered before the carcinogen, it has obvious tumor-promoting properties if given after the carcinogen. Indole-3-carbinol has a number of other undesirable properties that raise questions with respect to the advisability of its use in chemoprotection. Thus, indole-3-carbinol is: (1) a very weak Phase 2 enzyme inducer; (2) is converted (especially at the acid pH prevailing in the stomach) to dimeric and trimeric condensation products that bind with very high affinity to the Ah receptor and thereby induce certain

cytochromes P-450 that activate carcinogens, i.e., it is a bifunctional inducer that elevates both Phase 1 and Phase 2 enzymes; and (3) upon chronic administration enhances carcinogenic activity. Such continuous administration represents a likely scenario in any chemoprotective strategy, and indole glucosinolates are therefore not very desirable agents for these purposes.

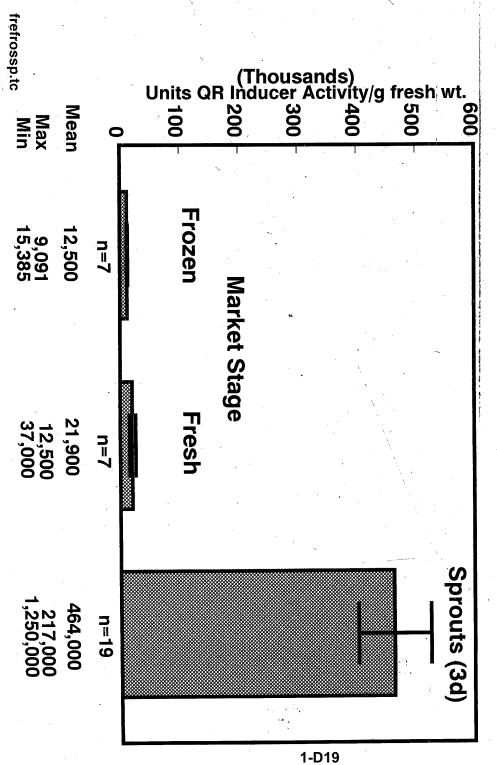
15. The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

March 13, 1997

Paul Talalay

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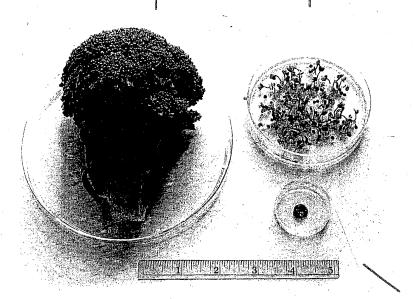


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BROCCOLI

MARKET STAGE (150 GRAM'S)

3-DAY SPROUTS (3 GRAMS)

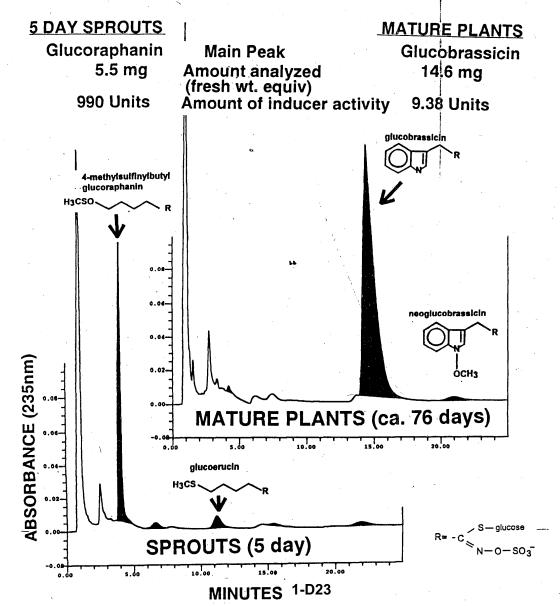


FREEZE DRIED WATER EXTRACT OF 3-DAY SPROUTS (150 MG)

ALL PREPARATIONS CONTAIN THE SAME QUANTITY (2-1/4 MILLION UNITS) OF ANTICARCINOGENIC **ENZYME INDUCER ACTIVITY**

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PAIRED ION CHROMATOGRAPHY SHOWING GLUCOSINOLATE PROFILES OF BROCCOLI (cv. SAGA)





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DATE MAILED: 07/23

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

This application is in condition for allowance except for the presence of claims 1-20, 27, 35, and 39-47 drawn to an invention non-elected with traverse in Paper No. 4. Applicant is given ONE MONTH or THIRTY DAYS from the date of this letter, whichever is longer, to cancel the noted claims or take other appropriate action (37 CFR 1.144). Failure to take action during this period will be treated as authorization to cancel the noted claims by Examiner's Amendment and pass the case to issue. Extensions of time under 37 CFR 1.136(a) will not be permitted since this application will be passed to issue.

The prosecution of this case is closed except for consideration of the above matter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (703) 308-1979. The examiner can normally be reached on Tuesday-Thursday from 6:30 AM to 5:00 PM.

The fax number for this Group is (703) 305-3602.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Leslie Wong Primary Examiner Art Unit 1302

LAW May 22, 1997 $M \mid \beta$ in the united states patent and trademark office

Attorney Docket No. 46528/102/JOHO

In re patent application of

Jed FAHEY et al.

Serial No. 08/528,858

Filed: September 15, 1995

For: CANCER CHEMOPROTECTIVE FOOD PRODUCTS

Group Art Unit: 1302 Examiner: L. Wong

AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

sir:

In response to the Communication mailed May 23, 1997, applicants respectfully request that the examiner make the following changes to the application:

IN THE CLAIMS:

Please cancel claims 1-20, 27, 35 and 39-47, without prejudice or disclaimer.

REMARKS

Claims 1-20, 27, 35 and 39-47 were withdrawn from consideration in the instant case, as these claims were drawn to an invention non-elected, with traverse. Pursuant to the examiner's Communication dated May 23, 1997, claims 21-26, 28-34 and 36-38 are in condition for allowance and an early notice to this effect is earnestly solicited.

GROUP 1300 RECEIVED

197 JUN 23 PM 2: 28

Should there be any questions regarding this application, Examiner Wong is invited to contact the undersigned at the number shown below.

Respectfully submitted,

Richard C. Peet

Reg. No. 35,792

June 18, 1997 Date

FOLEY & LARDNER Suite 500 3000 K Street, N.W. Washington, D.C. 20007-5109 (202) 672-5300 SENT BY: FOLEY & LARDNER, WASH; 8-12-97; 3:38PM; FOLEY & LARDNER_DC B-*6-0465850102-\$\$\$\$\$\$;# 1/ 2

FOLEY & LARDNER

WASHINGTON HARBOR 3000 K STREET, N.W., SUITE 500 WASHINGTON, D.C. 20007-5109 (202) 672-5300

FACSIMILE (202) 672-5399

Wendy Huber 202-672-5476

TELEX 904136

CONFIRMATION (202) 672-5340

FACSIMILE COVER SHEET

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SENT BY: FOLEY & LARDNER, WASH.; 8-12-97; 3:39PM; FOLEY & LARDNER, DC B-*6-0465850102-\$\$\$\$\$\$;# 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 046528/0102

In re patent application of

Jed FAHEY et al.

Group Art Unit: 1302

Serial No.: 08/528,858

Examiner: L. Wong

Filed: September 15, 1995

For: CANCER CHEMOPROTECTIVE FOOD PRODUCTS

ASSOCIATE POWER OF ATTORNEY

Commissioner of Patents and Trademarks Washington, D.C. 20231

OFFICIAL

sir:

The undersigned attorney of record hereby appoints Richard C. Peet as associate attorney with full power of association, substitution and revocation, to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith.

All correspondence should continue to be sent to the undersigned.

Respectfully submitted

Bernhard D. Saxe Reg. No. 28,665

FOLEY & LARDNER Suite 500

3000 K Street, N.W.

Washington, DC 20007-5109

(202) 672-5300



UNITED STAT ... DEPARTMENT OF COMMERCE

Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS

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fuller description if neces	ssary and a convot t	he amendments, if available, which the exa-	miner agreed wou	ald render the	claims allowable must be

attacked. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

It is not necessary for applicant to provide a separate record of the substance of the interview.

Unless the paragraph below has been checked to indicate to the contrary, A FORMAL WRITTEN RESPONSE TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW (e.g., Items 1-7 on the reverse side of this form). If a response to the last Office action has already been filled, then applicant is given one month from this interview date to provide a statement of the substance of the interview.

2. Since the examiner's interview summary above (including any attachments) reflects a complete response to each of the objections, rejections and requirements that may be present in the last Office action, and since the claims are now allowable, this completed form is considered to fulfill the response requirements of the last Office action. Applicant is not relieved from providing a separate record of the substance of the interview unless. box 1 above is also checked.

1-D29



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OSERIAL NUMBER	FHANG DATES	EAHEY	FIRST NAMED APPLICANT		ATIOPNEY PROKETNO.
		13M	11/0814		EXAMINER
FOLEY AND LA	ARDNER			WONG, L	-
3000 K STREE	ET NW				
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WASHINGTON I	C 20007-51	09		ART UNIT	TATEN MOINDEN
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		NOTICE (OF ALLOWABILITY		140

PART J.	$\nabla a = i \cdot \lambda a$
· • •	tion is responsive to pages tiled 6/18/9
/ A	eing allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or pre-	viously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due
course.	0)-26 29 311 - 1 31 - 39
3. The allowed clair	ns are 21-26, 28-34 and 36-38
4. The drawings file	
5. Acknowledgmen	t is made of the claim for priority under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been
received. [] bee	filed in parent application Serial No
6. M Note the attache	d Examiner's Amendment.
7. Note the attache	d Examiner Interview Summary Record, PTOL-413.
8. Note the attache	d Examiner's Statement of Reasons for Allowance.
9. Dote the attache	NOTICE OF REFERENCES CITED, PTO-892.
10. Note the attache	d INFORMATION DISCLOSURE CITATION, PTO-1449.
PART II.	
A SHORTENED STATU	TORY PERIOD FOR RESPONSE to comply-with the requirements noted below is set to EXPIRE THREE MONTHS LED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application.
	be obtained under the provisions of 37 CFR 1.136(a).
·	
1. Note the attache	C EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath
~i\	eficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
	T MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE
OF THIS PAPER.	
	malities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. ORRECTION IS REQUIRED.
b. The proposed	drawing correction filed on has been approved by the examiner. CORRECTION IS
REQUIRED.	
.c. Approved dra REQUIRED.	wing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS
41	gs are now REQUIRED.
u. La Tormai di awiii	js are now negotites.
Any response to this le	etter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE
AND ISSUE FEE DUE: IS	SSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.
Attachments:	
Examiner's Amendment	- Notice of Informal Application, PTO-152
Examiner Interview Sum	
Y Reasons for Allowance	_ Listing of Bonded Draftsmen
_ Notice of References Cit	
Information Disclosure C	Itation P10-1449

Serial Number: 08/528858

Art Unit: 1302

Page 2

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312.

To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Richard C. Peet on August 12, 1997.

The application has been amended as follows:

IN THE TITLE:

Change the title to METHOD OF PREPARING A FOOD PRODUCT FROM CRUCIFEROUS SEEDS --.

IN THE SPECIFICATION:

Claim 28, line 3, delete -- "according to claim 1" -- and insert -- , with the exception of cabbage, cress, mustard and radish sprouts, harvested prior to the 2-leaf stage, --.

IN THE ABSTRACT:

Delete the Abstract and insert the attached Abstract on a separate sheet.

Serial Number: 08/528858

Page 3

Art Unit: 1302

The following is an examiner's statement of reasons for allowance: a method of preparing a food product wherein cruciferous sprouts, with the exception of cabbage, cress, mustard, and radish sprouts are harvested prior to the 2-leaf stage is not taught nor fairly suggested by the prior art or any combination thereof.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (703) 308-1979. The examiner can normally be reached on Tuesday-Thursday from 6:30 AM to 5:00 PM.

The fax number for this Group is (703) 305-3602.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Leslie Wong Primary Examiner Art Unit 1302

pslieWng

LAW August 13, 1997 Case 1:07-cv-07844-SAS Document 43-9 Page 33 of 51 Filed 05/09/2008 528,858 ABSTRACT A method of preparing a food product rich in glucosinolates wherein cruciferous seeds, with the Β, exception of cabbage, cress, mustard and radish seeds, are germinated, and sprouts are harvested prior to the 2-leaf stage, to form a food product containing a plurality of sprouts.



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

13M1/0814

FOLEY AND LARDNER 3000 K STREET NW SUITE 500 WASHINGTON DE 20007-5109

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/528.858	09/15/95	016 WONG.	L 130	2 08/14/97
First Named Applicant FAHEY.		JED W.		

TITLE OF INVENTION THOO OF PREPARING A FOOD PRODUCT FROM CRUCIFEROUS SEEDS (AS AMENDED)

⊕ AT	TY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
1	46528/102/JC	426-049.0	180 94	a brilit	A YEE,	\$645.00	11/14/97

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS. APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as yes, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown
- If the SMALL ENTITY is shown as NO:
- A. Pay FEE DUE shown above, or
- B. File verified statementof Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "6b" of Part B should be completed.
- III. All communications regarding this application must give application number and batch number. Please direct all communication prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due. 1-D34

F14/21-97

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 46528/102/JOHO

In re patent application of

Jed FAHEY et al.

Serial No. 08/528,858

Filed: September 15, 1995

Batch No. Q43

Group Art Unit: 1302

Examiner: L. Wong

Allowed: 08-14-97

For: METHOD OF PREPARING A FOOD PRODUCT FROM CRUCIFEROUS SEEDS (AS AMENDED)

LETTER

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

sir:

Applicants respectfully request that printing of the above-identified application, for which a Notice of Allowance and Issue Fee Due was mailed on August 14, 1997, be expedited due to the great commercial importance of this patent to applicants. The Formal Drawings and Issue Fee Transmittal, together with a check in the amount of \$645.00 is filed concurrently herewith. The Commissioner is authorized to charge any deficiency to Deposit Account No. 19-0741.

Respectfully submitted,

Richard C. Peet

Reg. No. 35,792

September 22, 1997

Date

FOLEY & LARDNER
Suite 500
3000 K Street, N.W.
Washington, D.C. 20007-5109

(202) 672-5300

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 46528/102/JOHO

In re patent application of

Batch No. Q43

Jed FAHEY et al.

Group Art Unit: 1302

Serial No. 08/528,858

Examiner: L. Wong

Allowed: 08-14-97

Filed: September 15, 1995 For: METHOD OF PREPARING A FOOD PRODUCT

FROM CRUCIFEROUS SEEDS (AS AMENDED)

SUBMISSION OF FORMAL DRAWINGS

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231 Attn: Publication Branch

sir:

SE? 23 1997

Applicants submit the attached formal drawings in the above-identified application.

Respectfully submitted,

September 22,

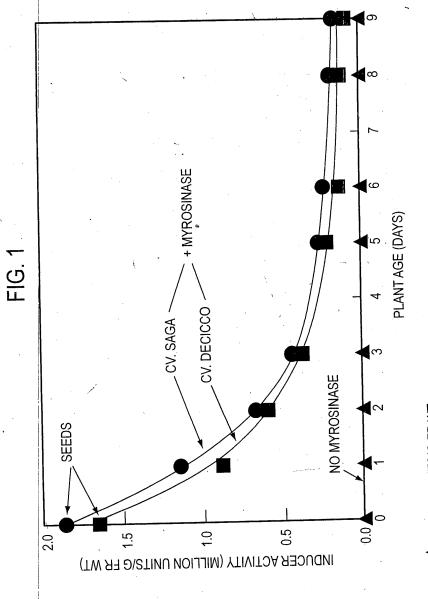
Date

Richard C. Peet Reg. No. 35,792

FOLEY & LARDNER Suite 500 3000 K Street, N.W. Washington, D.C. 20007-5109

(202) 672-5300





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FIG. 2A

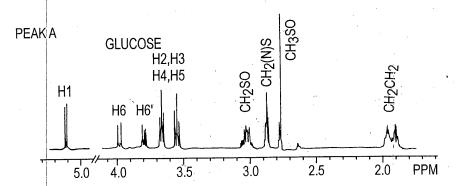
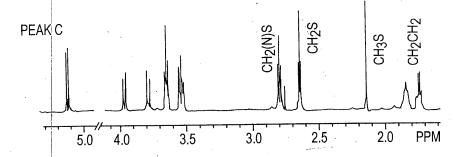
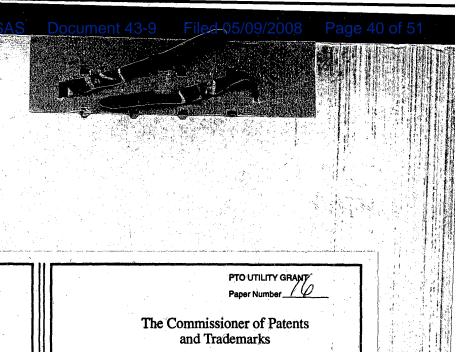


FIG. 2B



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ART B-ISSUE FE	E TRANSMITTAL
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MAILING A YSTRUCTIONS: This form should be used for transmitting the ISSUE FEE. cluding the issue Fee Receipt, the Patent, advance orders and notification of maintenar y, (a) specifyinga new correspondence address in Block 3 below, or (b) providing the PTV Issue Fee or thereafter. See reverse for Certificate of Mailling, below.	ance fees will be mailed to addresses entered in Block 1 unless you direct otherwi
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epending on the needs of the individual case. Any comments on the amount of time req	quired to INVENTOR'S NAME
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ashington, D.C. 20231. D NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Issue F	Street Address
sistant Commissioner for Patents, Washington D.C. 20231	City, State and Zip Code
1. CORRESPONDENCE ADDRESS	
1.3M1/0014	CO-INVENTOR'S NAME
FOLEY AND LARDNER	Street Address
3000 K STREET NW	1 11/29>
SUITE 500	City, State and Zip Code
WASHINGTON DC 20007-5109	
	☐ Check if additional changes are enclosed
APPLICATION NO. FILING DATE TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT DATE MAILED
AT GOALOUMO. TILING DATE TO TAKE OLAMO	1 South Miles
	G, L 1302 08/14/97
First Named Applicant FAHEY, JED W.	
	UTILITY VES \$645.00 11/14/97
1 46528/102/JO 426-049.000 Q43	
1 46528/102/JO 426-049.000 Q43	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered 2
1 46528/102/JO 426-049.000 Q43 Correspondence address change (Complete only if there is a change)	4. For printing on the patient front page, list the names of not more than 3 registered patient attorneys or agents OR, alternatively, the name of a firm having as a member a registered 2 attorney or agent. If no name is listed,
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1 46528/102/JO 426-049.000 Q43 Correspondence address change (Complete only if there is a change)	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.
1 46528/102/JO 426-049.000 Q43 Correspondence address change (Complete only if there is a change) ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type) 11 NOTER SASSIDIFÉ INS SCHOOL OF MEDICINE	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed. 8a. The following fees are enclosed:
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Correspondence address change (Complete only if there is a change) ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type) 1) NAME OF ASSIGNETINS SCHOOL OF MEDICINE 2) ADDRESS (CITY & STATE OR COUNTRY) 2) ADDRESS (CITY & STATE OR COUNTRY) 2) AT THE OR COUNTRY OF THE PATENT (print or type) 1) This application is NOT assigned. 2) Assignment previously submitted to the Patent and Trademark Office. 1) Assignment is being submitted under separate cover. Assignment should be directed to Box ASSIGNMENTS. PLEASE NOTE: Unless an assignee is Identified in Block 5, no assignee data will appear on the patent inclusion of assignee data is only appropriate when an assignment has been perviously submitted to PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.	4.For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered 2 attorney or agent. If no name is listed, no name will be printed. 8a. The following fees are enclosed:
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Correspondence address change (Complete only if there is a change) ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type) (1) NAMER ASSIGNMENT S SCHOOL OF MEDICINE (2) ADDRESS (CITY & STATE OR COUNTRY) (3) ADDRESS (CITY & STATE OR COUNTRY) (4) Assignment previously submitted to the Patent and Trademark Office. (5) Assignment is being submitted under separate cover. Assignment should be directed to Box ASSIGNMENTS. (6) PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the pater Inclusion of assignee data is only appropriate when an assignment has been perviously submitted to PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filling an assignment. (28.4.1997. BSTEMART 00000247 08528858 FUEZAC 645.00 09 Certificate of this certificate of mailing is used, it can be used to transmit the Issue Fee. T	4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered 2 attorney or agent. If no name is listed, no name will be printed. 3 6a. The following fees are enclosed: Issue Fee
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The United States of America



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to an statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Buce Commissioner of Patents and Trademarks

Form PTO-1584 (Rev. 2/97)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Jed W. FAHEY et al.

Serial No.: 08/528,858

Group Art Unit: 1302

Examiner: Wong, L.

Filed: September 15, 1995

For: METHOD OF PREPARING A FOOD

PRODUCT FROM CRUCIFEROUS SEEDS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56 and §1.97

Assistant Secretary and Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Submitted herewith on a modified Form PTO-1449 is a listing of a document which first became known to applicants after payment of the issue fee and within three months of filing of this statement. This document is being submitted to comply with applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of the listed document is being submitted.

The submission of the document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action that would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.

Serial No: 08/528,858

TIMING OF THE DISCLOSURE

The instant Information Disclosure Statement is being filed after the payment of the issue fee but before grant of the patent. Accordingly, pursuant to 37 CFR §1.97(i), applicants understand that the Information Disclosure Statement and accompanying document will be placed in the file, but will not be considered by the Office.

CERTIFICATION

The undersigned hereby certifies in accordance with 37 CFR \$1.97(e)(2) that the document cited in this Information Disclosure Statement was not cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge, after making reasonable inquiry, was not known to any individual designated in \$1.56(c) more than three months prior to the filing of the Statement.

RELEVANCE OF EACH DOCUMENT

The document listed on the attached PTO-1449 discloses that broccoli sprouts contain sulphoraphane, a type of glucosinolate. However, inter alia, this document neither discloses that broccoli sprouts are rich in glucosinolates, nor teaches a method of preparing a food product rich in glucosinolates, for example, having at least 200,000 units per gram of fresh weight of Phase 2-inducing potential, nor teaches when to harvest the sprouts to achieve these results, as claimed in the present invention.

Applicants respectfully request that this listed document be placed in the file.

Case 1:07-cv-07844-SAS Document 43-9 Filed 05/09/2008 Page 43 of 51

Serial No: 08/528,858

Respectfully submitted,

January 26, 1998

Richard C. Peet Reg. No. 35,792

FOLEY & LARDNER 3000 K Street, N.W., Suite 500 Washington, DC 20007-5109 Tel: (202) 672-5300

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Sheet 1 of 1			1. 1	7.			
FORM PTO 1449 (modified)			ATTY DOCKET NO. 046528/0102	SERIAL I 08/528,85			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Jed FAHEY et al.				
(U	RENCES CITED BY APPLICANT(lse several sheets if necessary)	(S)	FILING DATE September 15, 1995		GROUP 1302		
Date Submitted to PTO: Ji	anuary 27, 1998	IIS P	ATENT DOCUMENTS			· · · · · · · · · · · · · · · · · · ·	
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*EXAMMUER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 046528

In re patent application of

Jed FAHEY et al.

Serial No. 08/528,858

Filed: September 15, 1995

Allowed: August 14, 1997

Group Art Unit: 1302

Examiner: L. Wong

For: METHOD OF PREPARING A FOOD PRODUCT FROM CRUCIFEROUS SEEDS

Batch No.: Q43

ASSOCIATE POWER OF ATTORNEY

Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

The undersigned attorney of record hereby appoints the following as associate with full power of association, substitution and revocation, to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith:

Jayme Huleatt, Registration No. 34,485

All correspondence should continue to be sent to the undersigned.

Respectfully submitted,

Registration No. 28,665

Bernhard D. Saxe

January 26, 1998 Date

FOLEY & LARDNER Suite 500 3000 K Street, N.W. Washington, DC 20007-5109 $(202) \ 672 - 5300$

1-D45

3/2/98



UNITED STAN DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		· /	TTORNEY DOCKET NO.
087528,858	09/15/95	FAHEY		J.	46528/102/JO
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES DEPARAMENT OF COMMERCE Patent and Trademark Office

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.		
08/528,85	3 09/15/	95 FAHEY J	46528/102/JO		

A3M1/0302

FOLEY AND LARDNER 3000 K STREET NW SUITE 500 WASHINGTON DC 20007-5109 **EXAMINER** WONG, L PAPER NUMBER 1302

DATE MAILED:

03/02/98

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

Applicant's information disclosure statement of January 27, 1998, was filed after the issue fee was paid. Information disclosure statements filed after payment of the issue fee will not be considered, but will be placed in the file. However, the application may be withdrawn from issue in order to file a continuing application under 37 CFR 1.53(b) or 1.53(d) upon the grant of a petition filed under the provisions of 37 CFR 1.313(b)(5). Alternatively, the other provisions of 37 CFR 1.313 may apply, e.g., a petition to withdraw the application from issue under the provisions of 37 CFR 1.313(b)(3) may be filed together with an unequivocal statement by the applicant that one or more claims are unpatentable over the information contained in the statement. The information disclosure statement would then be considered upon withdrawal of the application from issue under 37 CFR 1.313(b)(3).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (703) 308-1979. The examiner can normally be reached on Tuesday-Thursday from 6:30 AM to 5:00 PM.

> Leslie Wong **Primary Examiner** Art Unit 1302

LAW February 26, 1998

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

20

Publishing Division

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Attorney Docket No. 046585/0102

Patent No. 5,725,895 Issued: March 10, 1998

Group Art Unit: 1302

Examiner: L. Wong

For: METHOD OF PREPARING A FOOD PRODUCT FROM CRUCIFEROUS SEEDS

OCT 1 8 1999

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Assistant Commissioner for Patents Washington, D.C. 20231

In re patent application of

Jed FAHEY et al.

Serial No. 08/528,858

Filed: September 15, 1995

Sir:

Submitted herewith on a modified Form PTO-1449 is a listing of documents known to patentee in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56, and in view of MPEP § 2001.06(c). The listed documents became know to patentee incident to a suit for infringement of the above-captioned patent filed by patentee in the District Court of Delaware.

The accompanying Form PTO-1449 lists several papers and publications that were provided during the course of discovery in the infringement suit. In addition, the defendants have recently filed a request for reexamination of the above-captioned patent citing several of the listed papers and publications.

Patentee believes that the documents listed in the accompanying Form PTO-1449 do not adversely impact the patentability of the claims of the above-captioned patent. However, out of an abundance of caution, and in compliance with the duty of disclosure, patentee hereby brings these documents to the attention of the Patent Office.

In the course of the infringement suit, the defendants also have lodged several affirmative defenses and counterclaims, including (1) invalidity and unenforceability for failure to comply with the provisions of 35 U.S.C. §§ 101, 102, 103, and 112, (2) breach of the duty to disclose material information, and (3) patent misuse. Provided herewith is a

U.S. Patent No. 5,725,895 U.S. Serial No. 08/528,858

Attorney Docket No. 046585/0102

copy of the defendants' "Answer, Affirmative Defenses and Counterclaim," which contains these allegations.

Patentee believes that the foregoing affirmative defenses and counterclaims are without merit. However, out of an abundance of caution, and in compliance with the duty of disclosure, patentee hereby brings these documents to the attention of the Patent Office.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present patent or is considered to be material to patentability as defined in 37 C.F.R. §1.56(b). Patentee does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a <u>prima facie</u> prior art reference against the claims of the present patent.

Since the above identified patent has issued, it is respectfully requested that this Information Disclosure Statement and the listed documents be placed in the file of the present patent, pursuant to 37 C.F.R. §1.97(i).

Respectfully submitted,

Date

Richard C. Peet

Registration No. 35,792

FOLEY & LARDNER 3000 K Street, NW, Suite 500 Washington, DC 20007-5109 (202) 672-5300

ctober 18, 1999

If there are any fees due which are not enclosed herewith, including any fees required for an extension of time, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account Number 19-0741.

SHEET 1' of C FORM PTO 144			ATTEN DOOMET NO	SERIAL NO.	PATENT NO.
U.S. DEPARTMENT OF COMMERCE		ATTY DOCKET NO. 046585/0102	08/528,858	5,725,895	
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	several sheets if	D BY APPLICANT(S) necessary)	Jed FAHEY et al.	8 1999 D	
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		The Sprou	tletter, Number 25, Nov Dec.	1984)
		"The Spro	utletter" May-June 1981, No. 4.		1
		Roy Brude	er, Ph.D., Discovering Natural Fo	ods, (including pgs.203-209)), Woodbridge Press,
		` `	Clement, Hippocrates Health Progr	ram, (including pgs 7-11), H	ipprocrates Publications
			ss, The Back to Eden Cookbook,	pgs. 61-61, Woodbridge Pre	ss; 1974.
		Steve Mey	verowitz, Sproutmann Kitchen Gar	den Cookbook, The Sprouth	ouse, Inc., pgs. 178-179
		290, 1994.		<u> </u>	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through dilation if not inconformance and not considered. Include copy of this form with next communication to applicant.